



EXPRESS MAIL LABEL NO.: EV 396739575 US

PATENT APPLICATION

Docket No.: 15913.39

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:)
)
Bing Zhou, et al.)
)
Serial No.: 10/618,909) Art Unit
) 1754
Filed: July 14, 2003)
)
Confirmation No.: 7968)
)
For: INTERMEDIATE PRECURSOR)
COMPOSITIONS USED TO MAKE)
SUPPORTED CATALYSTS HAVING A)
CONTROLLED COORDINATION STRUCTURE)
AND METHODS FOR PREPARING SUCH)
COMPOSITIONS)
)
Examiner: Unknown)

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§

102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of each of the listed references or relevant portion thereof is also enclosed.

In accordance with 37 C.F.R. § 1.98(c), all English translations within the possession, custody, control or availability of anyone designated in 37 C.F.R. § 1.56(c) of each nonenglish reference, if any, are also enclosed.

Statement of Relevance of References Listed
Unaccompanied by English Translation
Under 37 C.F.R. § 1.98(a)(3)

In accordance with 37 C.F.R. § 1.98(a)(3), the following concise explanation of the relevance of each listed reference that is not in the English language and unaccompanied by a translation into English is provided.

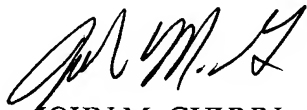
WO98/108863

A palladium-base catalyst which can selectively hydrogenate highly unsaturated hydrocarbon compounds contained in small amounts in an olefin compound prepared by steam cracking or the like of naphtha without causing hydrogenation of the olefin as a side reaction and the precipitation of a carbonaceous material. The catalyst comprises palladium and alumina, and the exposed face of each palladium crystallite is mainly accounted for by (100) and (110) faces.

Further, in the desorption of adsorbed hydrogen by heating, desorption peaks are observed in the temperature ranges of 40 to 90° C and 120 to 170° C and the ratio of hydrogen desorption amount of the former to the latter is (4 : 6) to (3 : 7).

Dated this 12th day of November, 2003.

Respectfully submitted,



JOHN M. GYNN
Attorney for Applicant
Registration No. 36,153
Customer No. 022913

JMG:kk
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Applicant: Bing Zhou, et al.

Serial No. 10/618,909

Att'y Docket No. 15913.39

Confirmation No. 7968

Group: 1754

Filing Date: July 14, 2003

INTERMEDIATE PRECURSOR COMPOSITIONS USED TO MAKE
SUPPORTED CATALYSTS HAVING A CONTROLLED
COORDINATION STRUCTURE AND METHODS FOR PREPARING
SUCH COMPOSITIONS



INFORMATION DISCLOSURE CITATIONS MADE BY APPLICANT

U.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue Date</u>	<u>Name</u>
___ 1	4,007,256	02/08/1977	Kim et al.
___ 2	4,028,274	06/07/1977	Kunz
___ 3	4,128,627	12/05/1978	Dyer et al.
___ 4	4,335,092	06/15/1982	Dalton et al.
___ 5	4,336,239	06/22/1982	Dalton et al.
___ 6	4,336,240	06/22/1982	Moselay et al.
___ 7	4,347,231	08/31/1982	Michaelson
___ 8	4,347,232	08/31/1982	Michaelson
___ 9	4,476,242	10/09/1984	Puskas et al.
___ 10	4,701,428	10/20/1987	Bellussi et al.
___ 11	4,713,363	12/15/1987	Hucul
___ 12	4,824,976	04/25/1989	Clerici et al.
___ 13	4,937,216	06/26/1990	Clerici et al.

Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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SUCH COMPOSITIONS

_____ 14	4,937,220	06/26/1990	Nickols, Jr.
_____ 15	5,024,905	06/18/1991	Itoh et al.
_____ 16	5,061,671	10/29/1991	Kitson et al.
_____ 17	5,096,866	03/17/1992	Itoh et al.
_____ 18	5,104,635	04/14/1992	Kanada et al.
_____ 19	5,166,372	11/24/1992	Crocco et al.
_____ 20	5,214,168	05/25/1993	Zajacek et al.
_____ 21	5,338,531	08/16/1994	Chuang et al.
_____ 22	5,372,981	12/13/1994	Witherspoon
_____ 23	5,399,344	08/16/1994	Kawakami et al.
_____ 24	5,698,488	12/16/1997	Birbara et al.
_____ 25	5,767,036	06/16/1998	Freund et al.
_____ 26	5,900,386	05/04/1999	Freund et al.
_____ 27	5,912,367	06/15/1999	Chang
_____ 28	5,961,948	10/05/1999	Wanngard
_____ 29	5,965,101	10/12/1999	Goto et al.
_____ 30	6,090,858	07/18/2000	El-Sayed

Examiner:

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____ 31	6,168,775	01/02/2001	Zhou et al.
____ 32	6,194,338	02/27/2001	Andolfatto et al.
____ 33	6,284,213	09/04/2001	Paparatto et al.
____ 34	6,500,968	12/31/2002	Zhou et al.
____ 35	6,518,217	02/11/2003	Xing et al.
____ 36	6,534,661	03/18/2003	Zhou et al.
____ 37	6,576,214	06/10/2003	Zhou, et al.

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publication Date</u>	<u>Country or Patent Office</u>
____ 38	EP 0864362	09/16/1998	EPO
____ 39	EP 0978316	02/09/2000	EPO
____ 40	WO 98/10863	03/19/1998	Japan

Examiner:

Date Considered:

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COORDINATION STRUCTURE AND METHODS FOR PREPARING
SUCH COMPOSITIONS

Other Documents

(including author, title, pertinent pages, etc.)

Examiner

Initial*

_____ 41 "Shape-Controlled Synthesis of Colloidal Platinum Nanoparticles" by T. Ahmadi
et al, Science, vol. 272, Jun. 28, 1996, pp. 1924-1926

References Cited by Applicants

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner:

Date Considered:

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Image

11-17-03

OP-1754

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
15913.39

Pre-Application Of: Bing Zhou, et al.

Serial No.
618,909

Filing Date
July 14, 2003

Examiner
Unassigned

Group Art Unit
1754

Title:

**INTERMEDIATE PRECURSOR COMPOSITIONS USED TO MAKE SUPPORTED CATALYSTS HAVING A
CONTROLLED COORDINATION STRUCTURE AND METHODS FOR PREPARING SUCH COMPOSITIONS**

Address to:

**Assistant Commissioner for Patents
Washington, D.C. 20231**

37 CFR 1.97(b)

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

37 CFR 1.97(c)

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:

☐ the statement specified in 37 CFR 1.97(e);

OR

☐ the fee set forth in 37 CFR 1.17(p).

TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
(Under 37 CFR 1.97(b) or 1.97(c))

Docket No.
15913.39

Re Application: Bing Zhou, et al.

Serial No.
10/618,909

Filing Date
July 14, 2003

Examiner
Unassigned

Group Art Unit
1754

**INTERMEDIATE PRECURSOR COMPOSITIONS USED TO MAKE SUPPORTED CATALYSTS HAVING
CONTROLLED COORDINATION STRUCTURE AND METHODS FOR PREPARING SUCH**

Payment of Fee

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of _____ is attached.
- ☒ The Assistant Commissioner is hereby authorized to charge and credit Deposit Account No. 23-3178 as described below. A duplicate copy of this sheet is enclosed.
- ☐ Charge the amount of _____
- ☒ Credit any overpayment.
- ☒ Charge any additional fee required.

Certificate of Transmission by Facsimile*

I certify that this document and authorization to charge deposit account is being facsimile transmitted to the United States Patent and Trademark Office (F

(Date)

Signature

Typed or Printed Name of Person Signing Certificate

Certificate of Mailing by First Class Mail

I certify that this document and fee is being deposited with the U.S. Postal Service as first class mail under 37 C.F.R. 1.8 and is addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

Signature of Person Mailing Correspondence

Typed or Printed Name of Person Mailing Certificate

*This certificate may only be used if paying by deposit account.

Dated: November 14, 2003

Signature

John M. Guynn
Attorney for Applicant
Customer No. 022913

CC:



PATENT APPLICATION
Docket: 15913.39

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AND METHODS FOR PREPARING SUCH)
COMPOSITIONS)
)
Examiner: Unknown)

EXPRESS MAILING LABEL EV 396739575 US

CERTIFICATE OF MAILING BY "EXPRESS MAIL"

I hereby certify that the following documents are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated below in an envelope addressed to Box: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

- Transmittal for Information Disclosure Statement (2 pg.)
- Information Disclosure Statement (3 pgs.)
- Form PTO-1449 (4 pgs.)
- Copy of (4) references
- Postcard

Dated this 14 day of November 2003.

Respectfully submitted,

Kimberly Kendrick
Paralegal to John M. Guynn